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LOUDSPEAKER - VACUUM TUBE AUDIO EQUIPMENT

ULTIMATE 300



300B SINGLE-ENDED TUBE PREAMPLIFIER
OPTICAL & MM-MC PHONO

WWW.THIVANLABS.COM

ULTIMATE 300

ULTIMATE 300 is a flagship 300B tube line preamplifier with Optical & MM/MC phono, designed in single-ended with output transformer and Class A Zero Feedback.

Ultimate 300B is designed in two chassis blocks. The main block is located the tubes including two 300B and two 6SN7 tubes for line preamplifier stage, two 12AX7 and one 12AU7 tubes for phono amplification stage. Most of the main feature switches are located on the main chassis. The power block is separated to the main block to optimize the operation of the device. A High / Standard dynamic selection switch is located on the power block. A connecting cable is specially made to connect these blocks to ensure the best connection and supply the most stable power between the two stages/blocks of the device.



ULTIMATE 300

Silver



Ultimate 300B has two color options Black & Silver.
Each color has options of knob colors.

U300 Silver

U300 Black

Silver

Gold

Black

Brass



One of the most unique points in the design solution of Ultimate 300 to achieve the highest musicality is the use of 300B tubes for the main amplifier stage, designed according to the single-ended Class A – Zero Feedback circuit, combined with transformer output technology developed by ThivanLabs specifically optimized for 300B tubes. With this special design, the sound is reproduced “super dynamic and detailed”, “natural, emotional sound” and “an unlimited sound stage extent”.

The power supply module of Ultimate 300 is also one of the unique components of the device. The outstanding advantage of the power supply module of the Ultimate 300 is the use of many Chokes to purify the power source for the amplifier circuit. These chokes are also specially designed and manufactured, tested extremely rigorously to achieve the best noise filtering ability for the power section. The use of many specialized Chokes for the Ultimate 300 really brings an extremely fast, powerful source of energy, while completely preserving the details and musicality, thanks to which the dynamics are extremely high and fast. This is also the outstanding advantage of the Ultimate 300 compared to Preamp devices that only use filter capacitors for the power section.

Using oil capacitors (PIO) in the power supply circuit for the amplifier stage.

Users can freely mix and match tubes to explore different sound colors, especially with the 300B and 6SN7 tubes (each pair should be a matched pair to get the most balanced sound). The tubes are designed to operate completely Auto Bias, so users can completely rest assured to mix and match a variety of different tube brands.

The pinnacle of technical design



Line preamplifier

Ultimate 300B uses transformer output, designed with very low output impedance, so the ability to supply large and fast current, thanks to which the sound can easily achieve very high dynamics.

The entire signal circuit is designed with the shortest transmission path and point-to-point connection, helping to preserve the optimal signal. Therefore, the smallest details of the sound to be amplified in a subtle and extremely detailed way.

A separated power supply

The power supply is separated into a separate module from the amplifier module to completely eliminate noise in the most optimal way.

The power supply module is specially designed and tested, using a lot of choke coils (L) and oil capacitors (PIO) to bring a clean, endlessly deep sound background.

The connection cable is specially tested to optimize extremely durable and stable transmission between the two modules – the main amplifier module and the power supply module.

Two options for a connecting plug between the Ultimate 300 main and power blocks are available. For all optional selections, please contact our distributors to ask for availability and possibility in your country.



True balanced XLR output

The Ultimate 300 is also a Preamp with a True Balanced output for optimal noise reduction.

- Reduced noise and interference when using long cables for connection: This is especially important in environments with a lot of electrical noise or when using long XLR cables up to 12 meters. The ability to maintain signal quality over longer distances makes the True Balanced connections ideal for systems in large rooms, arranging LP, CD sources etc. close to the listening position and far from the amplifier, speakers.
- Improved signal integrity: By minimizing noise, balanced connections ensure a cleaner and more accurate audio signal.

Unique features

The Ultimate 300 integrates all phono features to meet all types of cartridges available on the market, especially the DS Optical Cartridge.

- Tube Phono feature for DS Optical Cartridge.
- Tube Phono MM – MC feature (MC with Step-up Transformer)
- Phono control section is located on the top of the device for easy use
- Equipped with remote control



Specifications

Inputs (7)	3 sets RCA line input 1 sets Balance XLR line input 1 sets RCA MM RIAA Phono 1 sets RCA MC Phono 1 Optical Phono (DS Optical Cartridge)
Outputs (2)	1 sets RCA 1 sets balanced XLR (EIA "pin 2 hot" studio standard)
Vacuum tubes	
– Line Preamplifier	2 x 300B Single Ended with Special Output Transformers 2 x 6SN7
– MM / MC / Optical Phono	2 x 12AX7 ; 1 x 12AU7
Frequency response	6Hz – 50kHz (+/-3dB)
HUM Noise	< 0.2mV
Gain	
– Line Preamplifier	Standard / High : +8dB / +12 dB (Switchable)
– MM Phono	48dB
– MC (Stepup transformer)	68dB
Sound mode	High Dynamic / Standard switch
Output	
– Max Output	> 18Vp-p
– Recommended Output Load	> 50 Ohms
Input Impedance	
– Line Preamplifier	100k
– MM Phono	47k
– MC Phono	22 – 47 – 100 – 220 – 470 Ohms

Power Requirements

EU: 230V

US: 117V

Other countries: It is possible to set 100/110/117/240V/50-60Hz by different markets.

Power Consumption

95W

External power supply

Yes, detachable umbilical cables

Dimensions (W x D x H)

– Amplification module

45 x 40 x 29 (cm)

– Power Supply module

45 x 40 x 15 (cm)

Weight (kg)

- Main module 24kgs

- Power module 18kgs

Technical support

thivanlabs@gmail.com

International sales & service

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